DeSoto County Schools
Biology I
2021-2022 Pacing Guide (Block)
Fall Semester

Unit	Days	Comp/ Obj	Major topics/concepts
Introduction	2	-	Intro to Course Lab Safety Scientific Method Policies and Procedures
Characteristics of Life	3	1A	Biotic/abiotic Cell theory Levels of organization Evidence for virus- Living/non-living
Macromolecules/ Biochemistry	5	1B	Organic compounds (structure and function) Metabolism Enzymes
Cells	7	1C, 1D	Cells (organelles structure and function) Prokaryotic/eukaryotic Plant/animal/fungi Virus reproduction Cell membrane Active/passive transport osmosis, diffusion, hypo-, hyper-, isotonic
Photosynthesis/ Cellular Respiration	5	2	ATP structure and function Photosynthesis equation (More in-depth) Cellular respiration Anaerobic/aerobic Computer Simulations with real work examples
Cell Growth and Division	4	1E	Cell cycle, Mitosis Cell differentiation, cancer, stem cells
September 30 – October 7			**Case 21 Benchmark Window (covering all previously listed material)**
Cell Growth and Division	5	3A.1, 3A.2	Meiosis Compare Mitosis/Meiosis Asexual reproduction Karyotypes Nondisjunction
Genetics	5	3A.3, 3B	Chromosomal abnormities Mendel's Laws Punnett Squares Incomplete/codominance Multiple Alleles Sex linked traits

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			Pedigrees
DNA and RNA	6	3C	DNA/RNA structure Replication Transcription Translation Mutations Types of RNA Cloning Transgenic DNA technology Stem cell research Gel Electrophoresis 1 Day
Evolution	5	4	Organic Chemical evolution Evidence for evolution Anatomy Fossil record Molecular/biochemical (gene and protein homology) Biogeographic distribution Cladograms/phylogenetic trees Adaptations Genetic variation Natural selection Speciation
Ecology	4	5	Levels of organization Cycles of matter Greenhouse gases Food chain, web, pyramid Symbiosis Predation/Prey Cooperation Mimicry Density independent/dependent Logistic/exponential growth Succession

***Aligned to MS CCRS 2018**
***Revised 11/3/20**